Product Information Sheet

MATERIAL ID: **EPO-TEK® OG147-7**
Date: 08/2007 **Per:**
Rev: II

Material Description:	A single component, thixotropic, UV curable epoxy, designed for adhesive, sealing, and encapsulating applications found in semiconductor, electro-optics, fiber optics, medical, and scientific / OEM industries. It is a high viscosity epoxy ideal for COB glob top "dam" encapsulation processes.
Number of Components:	Single
Mix Ratio by weight:	N/A
Cure Schedule (minimum)*	100mW/cm^2 for > 3 minutes @ 320-500 nm (depending on thickness)
Specific Gravity:	1.07 --- Part A: Part B:
Pot Life:	N/A
Shelf Life:	One year at room temperature

NOTE: Container(s) should be kept closed in a dark location when not in use.
*Please see Applications Note(s) available on our website.

MATERIAL CHARACTERISTICS: *To be used as a guide only, not as a specification. Data below is not guaranteed. Different batches, conditions and applications yield differing results.*
* denotes test on lot acceptance basis; Cure condition: varies as required

PHYSICAL PROPERTIES:			
***Color (before cure):**	Cloudy White	**Die Shear @ 23°C:**	≥ 20 **Kg /** 6,800 **psi**
***Consistency:**	Smooth thixotropic paste	**Degradation Temp:**	414 **°C**
***Viscosity (23°C):**		**Weight Loss:**	
@ 10 **rpm**	30,000 - 40,000 **cPs**	**@ 200°C:**	0.09 **%**
Thixotropic Index:	2.1	**@ 250°C:**	0.29 **%**
***Glass Transition**	≥ 70 **°C** (Post-Cure	**@ 300°C:**	0.80 **%**
Dynamic Scan 20—200°C; Ramp -10—200°C @ 20°C/Min)		**Operating Temp:**	
Coefficient of Thermal Expansion (CTE):		**Continuous:**	- 55**°C to** + 200**°C**
Below Tg:	45 **x 10^{-6} in/in°C**	**Intermittent:**	- 55**°C to** + 300**°C**
Above Tg:	190 **x 10^{-6} in/in°C**	**Storage Modulus @ 23°C:**	269,396 **psi**
Shore D Hardness:	81	***Particle Size:**	≤ 20 **microns**

OPTICAL PROPERTIES @ 23°C:			
Spectral Transmission:	>83 **% @** 800-2000 **nm**	**Index of Refraction:**	1.5690 **@ 589 nm**
	>78 **% @** 580-800 **nm**		
	>56 **% @** 400-580 **nm**		

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